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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/938,033	08/22/2001	Kurt E. Spears	10011893-1	1678	
. 75	90 04/10/2003				
HEWLETT-PACKARD COMPANY			EXAMINER		
Intellectual Property Administration P.O. Box 272400			LEURIG, SH	LEURIG, SHARLENE L	
Fort Collins, CC	80527-2400		ART UNIT	PAPER NUMBER	

DATE MAILED: 04/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	_AL
		09/938,033	SPEARS, KURT E.	
ĺ	Office Action Summary	Examiner	Art Unit	
	•	Sharlene Leurig	2879	•
2	The MAILING DATE of this communication	appears on the cover she	et with the correspondence address	Ş
A SH THE - Exte afte - If th	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION PRIOD FOR REMAILING DATE OF THIS COMMUNICATION PRIOR P	N. R 1.136(a). In no event, however, no reply within the statutory minimum	nay a reply be timely filed of thirty (30) days will be considered timely.	ication
- Faili - Any	ure to reply within the set or extended period for reply will, by sta reply received by the Office later than three months after the ma led patent term adjustment. See 37 CFR 1.704(b).	atute, cause the application to beco	me ABANDONED (35 U.S.C. § 133).	
Status				·
1)🛛	Responsive to communication(s) filed on 2	<u> 22 August 2001</u> .		
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-final.		
3) <u> </u>	Since this application is in condition for all closed in accordance with the practice und	<u>-</u>	- · · · · · · · · · · · · · · · · · · ·	rits is
· _	ion of Claims Claim(a), 4,40 in/ore pending in the applicat	4:		
4)区	Claim(s) <u>1-19</u> is/are pending in the applicat	•		· .
دي ا	4a) Of the above claim(s) <u>1-13</u> is/are withdra	awn from consideration,		
5) <u></u>	Claim(s) is/are allowed.			
6)⊠	, ,			
7) <u></u>	Claim(s) is/are objected to.			
•	Claim(s) <u>1-19</u> are subject to restriction and/ ion Papers	or election requirement.		
	The specification is objected to by the Exam	iner		
	The drawing(s) filed on 22 August 2001 is/ar	<u></u>	shiected to by the Examiner	
10)	Applicant may not request that any objection to	·		*
11)	The proposed drawing correction filed on			
/ 🗀	If approved, corrected drawings are required in			•
12)	The oath or declaration is objected to by the			:
. •	under 35 U.S.C. §§ 119 and 120			,
	Acknowledgment is made of a claim for fore	eian priority under 35 U.S	i.C. § 119(a)-(d) or (f).	
	☐ All b)☐ Some * c)☐ None of:	g., p, a		
-/	1. Certified copies of the priority docume	ents have been received		
	2. Certified copies of the priority docume	•		, · · · .
	3. Copies of the certified copies of the p			Δ
* (application from the International See the attached detailed Office action for a l	Bureau (PCT Rule 17.2(a)).	•
14) 🗌 🗸	Acknowledgment is made of a claim for dome	estic priority under 35 U.S	S.C. § 119(e) (to a provisional appl	ication).
·	a) The translation of the foreign language Acknowledgment is made of a claim for dome	•		
.ttacḥmer		•		
) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice	view Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - 1. Claims 1-13, drawn to a method of making a lamp, classified in class 427, subclass 67.
 - II. Claims 14-19, drawn to an illumination source, classified in class 313, subclass 485.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the illumination source can be made by depositing both luminescent substances inside the tube from one end by spraying the tube selectively with a nozzle located at one end of the tube in order to form a predetermined distribution of the luminescent substances.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group I, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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During a telephone conversation with L. Joy Griebenow on March 28, 2003 a provisional election was made without traverse to prosecute the invention of an illumination source, claims 14-19. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-13 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 14, 15, 17 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakaya et al. (5,998,921).

Regarding claim 14, Nakaya discloses an illumination source comprising a linear tube comprising a first end and a second end (Figure 7, element 2), the tube having an inner surface with a luminescent substance (5) distributed on it, a longitudinal distribution density of the luminescent substance having a minimum at a first point on the inner surface located in the area where element 2c juts into the discharge space

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and no luminescent substance is distributed, the tube having a luminescent substance density greater than the minimum at each of a second and third point of the inner surface, the first point longitudinally located between the second and third points.

Regarding claim 15, the luminescent layer (5) is shown as an evenly distributed, homogeneous layer in Figure 7. The second and third points are located opposite each other, on either side of the area where element 2c juts into the discharge space, which is without a luminescent layer. The second and third points therefore have equivalent luminescent substance distribution densities.

Regarding claim 17, the tube includes a first electrode mount area, where the electrode (4) is mounted in the opening of the left-hand side of the tube (2) and a second electrode mount area, where the electrode (4) is mounted in the opening of the right-hand side of the tube. The second point is longitudinally located between the first point (which is in the area where element 2c juts into the discharge space and there is no luminescent layer) and the first electrode mount area, and is therefore in the area of the luminescent layer (5) on the left-hand side of the tube before element 2c when moving along the tube from left to right. The third point is longitudinally located between the second point and the second electrode mount area, and is therefore in the area on the right-hand side of tube after element 2c when moving along the tube from left to right.

Regarding claim 18, the illumination source is a cold cathode fluorescent lamp. It is considered to be a cold cathode because the electrode is not a heated filament but is supplied with a voltage for illuminating the lamp (column 7, line 32).

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Claim Rejections - 35 USC § 103

9. Claims 16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakaya et al. (5,998,921) in view of Evans et al. (5,856,726).

Nakaya discloses an illumination source with all the limitations discussed above, including a luminescent substance formed on the inner surface of the tube, and further discloses a discharge space filled with a rare gas (column 8, line 43).

Nakaya lacks a luminescent substance that is explicitly disclosed as a phosphor and explicit disclosure of the gas used for the rare gas fill.

It is well known in the art to use both phosphors as a luminescent substance and to use xenon as a rare gas fill.

Evans teaches both the use of a phosphor as a luminescent substance (column 6, line 30) and the use of xenon as a rare gas fill (column 6, line 14).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Nakaya's illumination source with a phosphor layer for the luminescent layer and with xenon as the rare gas fill, as taught by Evans.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharlene Leurig whose telephone number is (703)305-4745. The examiner can normally be reached on Monday through Friday, 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (703)305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7382 for regular communications and (703)308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Sharlene Leurig March 31, 2003

gr

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